

What is claimed is:

1. A composition for iontophoresis comprising at least one partially ionized active ingredient and a water swelling polymer which has a pH adjusting function.
- 5 2. The composition for iontophoresis as claimed in claim 1 wherein the water swelling polymer is at least either a weakly basic or weakly acidic water swelling polymer showing a characteristic of pH-dependent solubility.
3. The composition for iontophoresis as claimed in claim 1
10 wherein the water swelling polymer comprises at least either a polyamine of primary, secondary or tertiary amines or a carboxylic acid.
4. The composition for iontophoresis as claimed in claim 1 wherein the water swelling polymer comprises at least either
15 a basic methacrylate copolymer or an acidic methacrylate copolymer.
5. The composition for iontophoresis as claimed in claim 4 wherein the basic methacrylate copolymer is soluble at lower pH than around weak acidic to neutral range and hardly soluble at higher pH than that.
- 20 6. The composition for iontophoresis as claimed in claim 4 wherein the acidic methacrylate copolymer is soluble at higher pH than around weakly acidic to weakly basic range and hardly soluble at lower pH than that.
7. The composition for iontophoresis as claimed in claim 4
25 wherein the basic methacrylate copolymer is aminoalkyl methacrylate copolymer E.
8. The composition for iontophoresis as claimed in claim 4 which comprises a basic methacrylate copolymer and further contains

at least either hydrochloric acid or a weakly acidic material with at least one pKa within a range of 3 to 9.

9. The composition for iontophoresis as claimed in claim 8 wherein the weakly acidic material is at least one selected from
5 organic acids and acidic amino acids.

10. The composition for iontophoresis as claimed in claim 4 wherein the acidic methacrylic acid copolymer is at least either methacrylic acid copolymer L or methacrylic acid copolymer S.

11. The composition for iontophoresis as claimed in claim 4
10 which comprises an acidic methacrylate copolymer and further contains a weakly basic material with at least one pKa within a range of 3 to 10.

12. The composition for iontophoresis as claimed in claim 11 wherein the weakly basic material is at least one selected from
15 salts of organic acids and basic amino acids.

13. An electrically conductive layer for iontophoresis which comprises the composition for iontophoresis as claimed in any of claims 1 to 12.

14. A device structure for iontophoresis which is provided with
20 the electrically conductive layer containing at least one of partially ionized active ingredients and a water swelling polymer having a pH adjusting function, and electrodes to supply electric current to said electrically conductive layer.

15. The device structure for iontophoresis as claimed in claim
25 14 wherein the active ingredient is a cationic material and the water swelling polymer is a basic methacrylate copolymer or a mixture of the basic methacrylate copolymer and the acidic methacrylate copolymer.

16. The device structure for iontophoresis as claimed in claim
14 wherein said active ingredient is an anionic material and
said water swelling polymer is an acidic methacrylate copolymer
or a mixture of the basic methacrylate copolymer and the acidic
5 methacrylate copolymer.